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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-45

Perfect score: 20
Sequence: 1 tccataacgttcctgatgct 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
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- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:*
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- 22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9	US-09-824-468-49
2	20	100.0	20	9	US-09-800-266A-43
3	20	100.0	20	9	US-09-895-007A-43
4	20	100.0	20	9	US-09-920-313-43
5	20	100.0	20	10	US-09-888-326-545
6	20	100.0	20	10	US-09-818-918-3
7	20	100.0	20	10	US-09-818-918-45

8	20	100.0	20	10	US-09-931-583-42	Sequence 42, Appl
9	20	100.0	20	10	US-09-776-479-777	Sequence 77, Appl
10	20	100.0	20	10	US-09-954-987B-77	Sequence 44, Appl
11	20	100.0	20	11	US-09-874-991C-44	Sequence 110, Appl
12	20	100.0	20	11	US-09-874-991C-110	Sequence 133, Appl
13	20	100.0	20	11	US-09-874-991C-133	Sequence 161, Appl
14	20	100.0	20	11	US-09-874-991C-161	Sequence 182, Appl
15	20	100.0	20	11	US-09-874-991C-182	Sequence 77, Appl
16	20	100.0	20	11	US-09-776-479-777	Sequence 43, Appl
17	20	100.0	20	11	US-09-874-991C-182	Sequence 78, Appl
18	20	100.0	20	13	US-10-023-909A-43	Sequence 3, Appl
19	20	100.0	20	14	US-10-112-653-750	Sequence 77, Appl
20	20	100.0	20	14	US-10-017-995-777	Sequence 750, Appl
21	20	100.0	20	14	US-10-300-247-43	Sequence 43, Appl
22	20	100.0	20	15	US-10-161-229-44	Sequence 44, Appl
23	20	100.0	20	16	US-10-187-264A-3	Sequence 3, Appl
24	20	100.0	20	16	US-10-265-072-78	Sequence 78, Appl
25	20	100.0	20	16	US-10-306-522-3	Sequence 3, Appl
26	20	100.0	20	17	US-10-314-578-777	Sequence 77, Appl
27	20	100.0	20	17	US-10-434-696-43	Sequence 43, Appl
28	20	100.0	20	18	US-10-373-381-36	Sequence 36, Appl
29	20	100.0	20	18	US-10-719-493-3	Sequence 3, Appl
30	20	100.0	20	19	US-10-627-331-3	Sequence 3, Appl
31	20	100.0	20	19	US-10-666-733-43	Sequence 43, Appl
32	20	100.0	20	19	US-10-743-625-3	Sequence 3, Appl
33	20	100.0	20	19	US-10-743-625-45	Sequence 45, Appl
34	20	100.0	20	19	US-10-769-282-3	Sequence 3, Appl
35	20	100.0	20	19	US-10-769-282-45	Sequence 45, Appl
36	20	100.0	20	19	US-10-817-165-3	Sequence 3, Appl
37	20	100.0	20	19	US-10-817-165-45	Sequence 45, Appl
38	20	100.0	20	20	US-10-877-407-33	Sequence 33, Appl
39	20	100.0	20	20	US-10-877-369-36	Sequence 36, Appl
40	20	100.0	20	20	US-10-816-220-43	Sequence 43, Appl
41	20	100.0	20	20	US-10-831-778-777	Sequence 77, Appl
42	20	100.0	20	20	US-10-876-892-36	Sequence 36, Appl
43	20	100.0	20	20	US-10-876-892-36	Sequence 36, Appl
44	20	100.0	20	20	US-10-888-886-43	Sequence 43, Appl
45	20	100.0	20	21	US-10-847-642-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1

US-09-824-468-49
; Sequence 49, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-49

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTGATGCT 20

Db 1 TCCATAACGTTCTCTGATGCT 20
|||||

RESULT 2

US-09-800-266A-43

; Sequence 43, Application US/09800266A

; Patent No. US20020156033A1

; GENERAL INFORMATION:

; APPLICANT: Bratzler, Robert L.

; APPLICANT: Petersen, Deanna M.

; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and

; Cancer Medicament Combination Therapy for the Treatment of

; TITLE OF INVENTION: Cancer

; FILE REFERENCE: C1037/7017 (HCL/MAT)

; CURRENT APPLICATION NUMBER: US/09/800,266A

; PRIOR FILING DATE: 2001-03-05

; PRIOR FILING DATE: 2000-03-03

; NUMBER OF SEQ ID NOS: 146

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 43

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Sequence

; US-09-800-266A-43

Query Match 100.0%; Score 20; DB 9; Length 20;

Best Local Similarity 100.0%; Pred. No. 2.2;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20

|||||

Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 3

US-09-895-007A-43

; Sequence 43, Application US/09895007A

; Patent No. US20020165178A1

; GENERAL INFORMATION:

; APPLICANT: Schetter, Christian

; APPLICANT: Bratzler, Robert L.

; APPLICANT: Petersen, Deanna M.

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE

; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA

; FILE REFERENCE: C1041/7014 (AWS)

; CURRENT APPLICATION NUMBER: US/09/895,007A

; CURRENT FILING DATE: 2001-06-28

; PRIOR APPLICATION NUMBER: US 60/214,368

; PRIOR FILING DATE: 2000-06-28

; NUMBER OF SEQ ID NOS: 133

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 43

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

; US-09-895-007A-43

Query Match 100.0%; Score 20; DB 9; Length 20;

Best Local Similarity 100.0%; Pred. No. 2.2;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20

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Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 4

US-09-920-313-43

; Sequence 43, Application US/09920313

; Publication No. US20020198165A1

; GENERAL INFORMATION:

; APPLICANT: Bratzler, Robert L.

; APPLICANT: Petersen, Deanna M.

; TITLE OF INVENTION: Nucleic Acids for the Prevention and

; Treatment of Gastric Ulcers

; FILE REFERENCE: C1037/7019 (HCL/MAT)

; CURRENT APPLICATION NUMBER: US/09/920,313

; CURRENT FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: US 60/222,248

; PRIOR FILING DATE: 2001-08-08

; NUMBER OF SEQ ID NOS: 148

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 43

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Sequence

; US-09-920-313-43

Query Match 100.0%; Score 20; DB 9; Length 20;

Best Local Similarity 100.0%; Pred. No. 2.2;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20

|||||

Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 5

US-09-888-326-545

; Sequence 545, Application US/09888326

; Publication No. US20030026801A1

; GENERAL INFORMATION:

; APPLICANT: Weiner, George

; APPLICANT: Hartmann, Gunther

; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced

; Cell Lysis and Treating Cancer

; FILE REFERENCE: C1039/7052 (AWS)

; CURRENT APPLICATION NUMBER: US/09/888,326

; CURRENT FILING DATE: 2001-06-22

; PRIOR APPLICATION NUMBER: US 60/213,346

; PRIOR FILING DATE: 2000-06-22

; NUMBER OF SEQ ID NOS: 848

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 545

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

; NAME/KEY: misc feature

; LOCATION: (0)...(0)

; OTHER INFORMATION: phosphodiester backbone

; US-09-888-326-545

Query Match 100.0%; Score 20; DB 10; Length 20;

Best Local Similarity 100.0%; Pred. No. 2.2;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCTCTGATGCT 20

|||||

Db 1 TCCATAACGTTCTCTGATGCT 20

RESULT 6

US-09-818-918-3

; Sequence 3, Application US/09818918

; Publication No. US20030050261A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-3

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 7

US-09-818-918-45
; Sequence 45, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-45

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 8

US-09-931-583-42

; Sequence 42, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-42

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 9

US-09-776-479-777
; Sequence 777, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 777
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-777

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 10

US-09-954-987B-77
; Sequence 77, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:

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; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-77
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Query Match          100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1  TCCATAACGTTCCCTGATGCT 20
         |||||
Db      1  TCCATAACGTTCCCTGATGCT 20
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RESULT 11
US-09-874-991C-44
; Sequence 44, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-44
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Query Match          100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATAACGTTCCCTGATGCT 20
         |||||
Db      1  TCCATAACGTTCCCTGATGCT 20
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```
RESULT 12
US-09-874-991C-110
; Sequence 110, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
```

```
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-110
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Query Match          100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATAACGTTCCCTGATGCT 20
         |||||
Db      1  TCCATAACGTTCCCTGATGCT 20
```

```
RESULT 13
US-09-874-991C-133
; Sequence 133, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-133
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Query Match          100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATAACGTTCCCTGATGCT 20
         |||||
Db      1  TCCATAACGTTCCCTGATGCT 20
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```
RESULT 14
US-09-874-991C-161
; Sequence 161, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
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; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 161
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-161

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

Qy 1 TCCATAACGTTCTCGATGCT 20
|||
Db 1 TCCATAACGTTCTCGATGCT 20

RESULT 15

US-09-874-991C-182
; Sequence 182, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 182
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-182

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.2; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

Qy 1 TCCATAACGTTCTCGATGCT 20
|||
Db 1 TCCATAACGTTCTCGATGCT 20

Search completed: July 28, 2005, 04:00:01
Job time : 430.125 secs

THIS PAGE IS BLANK

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-45
Perfect score: 20
Sequence: 1 tccataacgttcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/pCTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-3
2	20	100.0	20	3	US-08-738-652-45
3	20	100.0	20	3	US-09-286-098-49
4	20	100.0	20	3	US-08-960-774-3
5	20	100.0	20	3	US-09-325-193A-43
6	20	100.0	20	4	US-09-191-170-44
7	20	100.0	20	4	US-09-296-477-18
8	20	100.0	20	4	US-09-337-619-3
9	18.4	92.0	20	2	US-09-133-774-11
10	18.4	92.0	20	3	US-08-386-063-25
11	18.4	92.0	20	3	US-09-303-862-11
12	18.4	92.0	20	3	US-08-386-063-25
13	18.4	92.0	20	3	US-08-738-652-7
14	18.4	92.0	20	3	US-08-738-652-35
15	18.4	92.0	20	3	US-08-738-652-44
16	18.4	92.0	20	3	US-08-738-652-54
17	18.4	92.0	20	3	US-09-286-098-24
18	18.4	92.0	20	3	US-08-960-774-7
19	18.4	92.0	20	3	US-08-960-774-88
20	18.4	92.0	20	3	US-09-082-649B-68
21	18.4	92.0	20	3	US-09-082-649B-79
22	18.4	92.0	20	3	US-09-325-193A-19
23	18.4	92.0	20	3	US-09-191-170-24
24	18.4	92.0	20	3	US-09-171-425-5
25	18.4	92.0	20	3	US-09-171-425-14
26	18.4	92.0	20	4	US-09-690-921-5
27	18.4	92.0	20	4	US-09-791-500-7

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28 18.4 92.0 20 4 US-09-337-619-7 Sequence 7, Appli
29 18.4 92.0 20 4 US-09-965-101-68 Sequence 68, Appl
30 18.4 92.0 20 4 US-09-965-101-79 Sequence 79, Appl
31 18.4 92.0 29 3 US-08-848-229-2 Sequence 2, Appli
32 18.4 92.0 29 4 US-09-022-965-2 Sequence 2, Appli
33 17.4 87.0 19 4 US-09-770-602-1 Sequence 1, Appli
34 17.4 87.0 19 4 US-09-770-602-2 Sequence 1, Appli
35 17.4 87.0 19 4 US-09-770-602-3 Sequence 3, Appli
36 17.4 87.0 19 4 US-09-770-602-4 Sequence 4, Appli
37 17.4 87.0 19 4 US-09-770-602-5 Sequence 5, Appli
38 17.4 87.0 19 4 US-09-770-602-6 Sequence 6, Appli
39 17.4 87.0 19 4 US-09-770-602-7 Sequence 7, Appli
40 17.4 87.0 19 4 US-09-770-602-8 Sequence 8, Appli
41 17.4 87.0 20 4 US-09-296-477-19 Sequence 19, Appli
42 16.8 84.0 20 3 US-08-738-652-9 Sequence 9, Appli
43 16.8 84.0 20 3 US-08-738-652-40 Sequence 40, Appli
44 16.8 84.0 20 3 US-08-738-652-43 Sequence 43, Appli
45 16.8 84.0 20 3 US-08-738-652-46 Sequence 46, Appli

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ALIGNMENTS

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RESULT 1
US-08-738-652-3
; Sequence 3, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-3

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Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Ov 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATAACGTTCCCTGATGCT 20

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RESULT 2
US-08-738-652-45
; Sequence 45, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45

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;
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-45

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 3
US-09-286-098-49
; Sequence 49, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7028/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-49

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 4
US-08-960-774-3
; Sequence 3, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
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; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-3

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 5
US-09-325-193A-43
; Sequence 43, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-43

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATAACGTTCCCTGATGCT 20

RESULT 6
US-09-191-170-44
; Sequence 44, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
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; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Hartmann, Gunther
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
 ; FILE REFERENCE: C1039/7017
 ; CURRENT APPLICATION NUMBER: US/09/191,170
 ; EARLIER FILING DATE: 1998-11-13
 ; EARLIER APPLICATION NUMBER: US 08/960,774
 ; EARLIER FILING DATE: 1997-10-30
 ; EARLIER APPLICATION NUMBER: US 08/738,652
 ; EARLIER FILING DATE: 1996-10-30
 ; EARLIER APPLICATION NUMBER: US 08/386,063
 ; EARLIER FILING DATE: 1995-02-07
 ; EARLIER APPLICATION NUMBER: US 08/276,358
 ; EARLIER FILING DATE: 1994-07-15
 ; NUMBER OF SEQ ID NOS: 99
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 44
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: synthetic oligonucleotide
 US-09-191-170-44

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.34;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCCCTGATGCT 20
 DB 1 TCCATAACGTTCCCTGATGCT 20

RESULT 7

US-09-296-477-18
 ; Sequence 18, Application US/09296477A
 ; Patent No. 6589940
 ; GENERAL INFORMATION:
 ; APPLICANT: RAZ, E.
 ; APPLICANT: SCHWARTZ, D.
 ; APPLICANT: ROMAN, M.
 ; APPLICANT: DINA, D.
 ; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGONUCLEOTIDES,
 ; TITLE OF INVENTION: COMPOSITIONS THEREOF AND METHODS OF USE
 ; FILE REFERENCE: 377882000420
 ; CURRENT APPLICATION NUMBER: US/09/296,477A
 ; EARLIER FILING DATE: 1999-04-22
 ; EARLIER APPLICATION NUMBER: 09/092,329
 ; EARLIER FILING DATE: 1998-06-05
 ; EARLIER APPLICATION NUMBER: 60/048,793
 ; EARLIER FILING DATE: 1997-06-06
 ; NUMBER OF SEQ ID NOS: 21
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 18
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic construct
 US-09-296-477-18

Query Match 100.0%; Score 20; DB 4; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.34;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCCCTGATGCT 20
 DB 1 TCCATAACGTTCCCTGATGCT 20

RESULT 8

US-09-337-619-3
 ; Sequence 3, Application US/09337619
 ; Patent No. 6653292
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Methods of Treating Cancer Using
 ; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
 ; FILE REFERENCE: C1039/7021/HCL
 ; CURRENT APPLICATION NUMBER: US/09/337,619
 ; EARLIER FILING DATE: 1999-06-21
 ; EARLIER APPLICATION NUMBER: US 08/960,774
 ; EARLIER FILING DATE: 1997-10-30
 ; EARLIER APPLICATION NUMBER: US 08/738,652
 ; EARLIER FILING DATE: 1996-10-30
 ; EARLIER APPLICATION NUMBER: US 08/386,063
 ; EARLIER FILING DATE: 1995-02-07
 ; EARLIER APPLICATION NUMBER: US 08/276,358
 ; EARLIER FILING DATE: 1994-07-15
 ; NUMBER OF SEQ ID NOS: 123
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 3
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Oligonucleotide
 US-09-337-619-3

Query Match 100.0%; Score 20; DB 4; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.34;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCCCTGATGCT 20
 DB 1 TCCATAACGTTCCCTGATGCT 20

RESULT 9

US-09-133-774-11
 ; Sequence 11, Application US/09133774B
 ; Patent No. 5962636
 ; GENERAL INFORMATION:
 ; APPLICANT: Bachmaier, Kurt
 ; APPLICANT: Hessel, Andrew J.
 ; APPLICANT: Neu M.D., Nikolaus
 ; APPLICANT: Penninger, Josef M.
 ; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
 ; TITLE OF INVENTION: Disease
 ; FILE REFERENCE: A-536
 ; CURRENT APPLICATION NUMBER: US/09/133,774B
 ; CURRENT FILING DATE: 1998-08-12
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: Patent In Ver. 2.0
 ; SEQ ID NO 11
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Chlamydia trachomatis
 ; FEATURE:
 ; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
 ; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
 ; OTHER INFORMATION: Chlamydia trachomatis.
 US-09-133-774-11

Query Match 92.0%; Score 18.4; DB 2; Length 20;
 Best Local Similarity 95.0%; Pred. No. 2.4;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCCCTGATGCT 20
 DB 1 TCCATAACGTTCCCTGATGCT 20

RESULT 10

US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386.063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-25
Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20
RESULT 11
US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; 60 kDa cysteine rich outer membrane protein from

; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11
Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20
RESULT 12
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386.063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-25
Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 TCCATAACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20
RESULT 13
US-08-738-652-7
; Sequence 7, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15

; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
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Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 14

US-08-738-652-35
; Sequence 35, Application US/08738652B
; Patent No. 6207646

; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-35

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
||||| |||||||
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 15

US-08-738-652-44
; Sequence 44, Application US/08738652B
; Patent No. 6207646

; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-44

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATAACGTTCCCTGATGCT 20
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Db 1 TCCATGACGTTCCCTGATGCT 20

Search completed: July 27, 2005, 18:00:04
Job time : 77 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-44

Perfect score: 20

Sequence: 1 tccatgacgttccctgatgct 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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SUMMARIES

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2	20	100.0	20	9	US-09-824-468-24
3	20	100.0	20	9	US-09-800-266A-19
4	20	100.0	20	9	US-09-846-091-4
5	20	100.0	20	9	US-09-895-007A-19
6	20	100.0	20	9	US-09-920-313-19
7	20	100.0	20	10	US-09-415-142-25

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8 20 100.0 20 10 US-09-888-326-127
9 20 100.0 20 10 US-09-888-326-566
10 20 100.0 20 10 US-09-888-326-567
11 20 100.0 20 10 US-09-818-918-7
12 20 100.0 20 10 US-09-818-918-35
13 20 100.0 20 10 US-09-818-918-44
14 20 100.0 20 10 US-09-818-918-54
15 20 100.0 20 10 US-09-931-583-25
16 20 100.0 20 10 US-09-931-583-48
17 20 100.0 20 10 US-09-776-479-758
18 20 100.0 20 10 US-09-776-479-806
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21 20 100.0 20 10 US-09-954-987B-207
22 20 100.0 20 10 US-09-967-464-7
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30 20 100.0 20 11 US-09-874-991C-425
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32 20 100.0 20 11 US-09-776-479-806
33 20 100.0 20 11 US-09-776-479-865
34 20 100.0 20 11 US-09-965-101-68
35 20 100.0 20 11 US-09-965-101-79
36 20 100.0 20 13 US-10-023-909A-19
37 20 100.0 20 13 US-10-305-150-7
38 20 100.0 20 14 US-10-011-635A-1
39 20 100.0 20 14 US-10-112-653-10
40 20 100.0 20 14 US-10-112-653-11
41 20 100.0 20 14 US-10-112-653-731
42 20 100.0 20 14 US-10-112-653-731
43 20 100.0 20 14 US-10-112-653-779
44 20 100.0 20 14 US-10-112-653-836
45 20 100.0 20 14 US-10-017-995-806
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ALIGNMENTS

RESULT 1

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US-09-791-500-7
; Sequence 7, Application US/09791500
; Patent No. US20020042387A1
; GENERAL INFORMATION:
; APPLICANT: Raz, Eyal
; APPLICANT: Rachmilewitz, Daniel
; TITLE OF INVENTION: Method for Treating Inflammatory Bowel
; TITLE OF INVENTION: Disease and Other Forms of Gastrointestinal Inflammation.
; FILE REFERENCE: 6510-202US1
; CURRENT APPLICATION NUMBER: US/09/791.500
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic polynucleotide sequence
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Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCCATGACGTTCCCTGATGCT 20

Db 1 TCCATGACGTTCCCTGATGCT 20

Sequence 127, App

Sequence 566, App

Sequence 567, App

Sequence 7, Appli

Sequence 35, Appl

Sequence 44, Appl

Sequence 54, Appl

Sequence 25, Appl

Sequence 48, Appl

Sequence 758, App

Sequence 806, App

Sequence 865, App

Sequence 84, Appl

Sequence 207, App

Sequence 7, Appli

Sequence 27, Appl

Sequence 93, Appl

Sequence 114, App

Sequence 138, App

Sequence 165, App

Sequence 186, App

Sequence 406, App

Sequence 425, App

Sequence 758, App

Sequence 806, App

Sequence 865, App

Sequence 68, Appl

Sequence 79, Appl

Sequence 19, Appl

Sequence 7, Appli

Sequence 1, Appli

Sequence 11, Appl

Sequence 731, App

Sequence 779, App

Sequence 836, App

Sequence 758, App

Sequence 806, App

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RESULT 2
US-09-824-468-24
; Sequence 24, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, George
; APPLICANT: Weiner, Arthur M.
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-24

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Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 3
US-09-800-266A-19
; Sequence 19, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/WAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-19

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 4
US-09-846-091-4
; Sequence 4, Application US/09846091
; Patent No. US20020165176A1
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; GENERAL INFORMATION:
; APPLICANT: HAYNES, Joel R.
; APPLICANT: MACKLIN, Michael D.
; APPLICANT: PAYNE, Lendon G.
; TITLE OF INVENTION: NUCLEIC ACID IMMUNIZATION
; FILE REFERENCE: APF40
; CURRENT APPLICATION NUMBER: US/09/846,091
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US/09/561,951
; PRIOR FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Construct
US-09-846-091-4

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Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 5
US-09-895-007A-19
; Sequence 19, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-19

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Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 6
US-09-920-313-19
; Sequence 19, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
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FILE REFERENCE: C1037/7019 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/920,313
CURRENT FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: US 60/222,248
FILING DATE: 2001-08-08
NUMBER OF SEQ ID NOS: 148
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 19
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-920-313-19

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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 7

US-09-415-142-25
Sequence 25, Application US/09415142
Publication No. US20030026782A1
GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
FILE REFERENCE: C1039/7029
CURRENT APPLICATION NUMBER: US/09/415,142
CURRENT FILING DATE: 1999-10-09
PRIOR APPLICATION NUMBER: US 08/386,063
FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 25
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-415-142-25

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 8

US-09-888-326-127
Sequence 127, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE REFERENCE: C1039/7052 (AWS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/213,346
FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 127
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: phosphodiester backbone
NAME/KEY: misc_feature
LOCATION: (1)...(1)
OTHER INFORMATION: biotinylated at 5' end
US-09-888-326-127

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Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 9

US-09-888-326-566
Sequence 566, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE REFERENCE: C1039/7052 (AWS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/213,346
FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 566
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: phosphodiester backbone
US-09-888-326-566

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Best Local Similarity 100.0%; Pred. No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 10

US-09-888-326-567
Sequence 567, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE REFERENCE: C1039/7052 (AWS)
CURRENT APPLICATION NUMBER: US/09/888,326
CURRENT FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/213,346
FILING DATE: 2000-06-22

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; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-54

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Best Local Similarity 100.0%; Pred.No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
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Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 15
US-09-931-583-25
; Sequence 25, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-25

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred.No. 5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
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Db 1 TCCATGACGTTCCCTGATGCT 20

Search completed: July 28, 2005, 04:00:01
Job time : 431.125 secs

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4	20	100.0	20	3	US-08-386-063-25	Sequence 25, Appl
5	20	100.0	20	3	US-08-738-653-7	Sequence 7, Appl
6	20	100.0	20	3	US-08-738-653-35	Sequence 35, Appl
7	20	100.0	20	3	US-08-738-652-44	Sequence 44, Appl
8	20	100.0	20	3	US-08-738-652-54	Sequence 54, Appl
9	20	100.0	20	3	US-09-286-098-24	Sequence 24, Appl
10	20	100.0	20	3	US-08-960-774-7	Sequence 7, Appl
11	20	100.0	20	3	US-09-082-649B-68	Sequence 68, Appl
12	20	100.0	20	3	US-09-082-649B-79	Sequence 79, Appl
13	20	100.0	20	3	US-09-325-193A-19	Sequence 19, Appl
14	20	100.0	20	3	US-09-191-170-24	Sequence 24, Appl
15	20	100.0	20	3	US-09-171-425-5	Sequence 5, Appl
16	20	100.0	20	3	US-09-171-425-14	Sequence 14, Appl
17	20	100.0	20	4	US-09-690-921-5	Sequence 5, Appl
18	20	100.0	20	4	US-09-791-500-7	Sequence 7, Appl
19	20	100.0	20	4	US-09-337-613-7	Sequence 7, Appl
20	20	100.0	20	4	US-09-965-101-68	Sequence 68, Appl
21	20	100.0	20	4	US-09-965-101-79	Sequence 79, Appl
22	20	100.0	29	3	US-08-848-229-2	Sequence 2, Appl
23	20	100.0	29	4	US-09-022-965-2	Sequence 2, Appl
24	19	95.0	19	4	US-09-770-602-1	Sequence 1, Appl
25	19	95.0	19	4	US-09-770-602-2	Sequence 2, Appl
26	19	95.0	19	4	US-09-770-602-3	Sequence 3, Appl
27	19	95.0	19	4	US-09-770-602-4	Sequence 4, Appl

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-25

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
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Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 3
US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hesseel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230e1 Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
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Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 4
US-08-386-063-25
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; Sequence 25, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-25

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
    |||||
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 5
US-08-738-652-7
; Sequence 7, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 6

US-08-738-652-35
; Sequence 35, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-35

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 7

US-08-738-652-44
; Sequence 44, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 8

US-08-738-652-54
; Sequence 54, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-54

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 9

US-09-286-098-24
; Sequence 24, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-24

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 10

US-08-960-774-7
; Sequence 7, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-7

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 11

US-09-082-649B-68
; Sequence 68, Application US/09082649B
; Patent No. 6339068

GENERAL INFORMATION:

; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 68
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide

; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphodiester backbone.
US-09-082-649B-68

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 12

US-09-082-649B-79
; Sequence 79, Application US/09082649B
; Patent No. 6339068

GENERAL INFORMATION:

; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-79

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 13

US-09-325-193A-19
; Sequence 19, Application US/09325193A
; Patent No. 6406705

GENERAL INFORMATION:

; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 19

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-19

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 14

US-09-191-170-24
; Sequence 24, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:

; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells

; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 24

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-24

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

RESULT 15

US-09-171-425-5
; Sequence 5, Application US/09171425A
; Patent No. 6465438
; GENERAL INFORMATION:

; APPLICANT: Schorr, Joachim
; APPLICANT: Baker, Henry J.
; APPLICANT: Smith, Bruce F.
; TITLE OF INVENTION: NUCLEIC ACID VACCINATION FOR PARVOVIRAL INFECTIONS
; FILE REFERENCE: 08909/003001
; CURRENT APPLICATION NUMBER: US/09/171,425A
; CURRENT FILING DATE: 1998-10-19
; EARLIER APPLICATION NUMBER: PCT/EP97/01943
; EARLIER FILING DATE: 1996-04-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 20

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated oligonucleotides
US-09-171-425-5

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCCCTGATGCT 20
Db 1 TCCATGACGTTCCCTGATGCT 20

Search completed: July 27, 2005, 18:00:04
Job time : 78 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-43

Perfect score: 20

Sequence: 1 tccatgctgcttcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications NA:**
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26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	20	100.0	20	9	US-09-800-266A-49
5	20	100.0	20	9	US-09-895-007A-49
6	20	100.0	20	9	US-09-920-313-49
7	20	100.0	20	10	US-09-888-326-62

8	20	100.0	20	10	US-09-888-326-611	Sequence 611, App
9	20	100.0	20	10	US-09-818-918-43	Sequence 43, Appl
10	20	100.0	20	10	US-09-818-918-53	Sequence 53, Appl
11	20	100.0	20	10	US-09-931-583-57	Sequence 57, Appl
12	20	100.0	20	10	US-09-776-479-136	Sequence 136, App
13	20	100.0	20	10	US-09-776-479-759	Sequence 759, App
14	20	100.0	20	10	US-09-954-987B-96	Sequence 96, Appl
15	20	100.0	20	10	US-09-967-464-6	Sequence 6, Appl
16	20	100.0	20	11	US-09-874-991C-43	Sequence 43, Appl
17	20	100.0	20	11	US-09-874-991C-109	Sequence 109, App
18	20	100.0	20	11	US-09-874-991C-132	Sequence 132, App
19	20	100.0	20	11	US-09-874-991C-160	Sequence 160, App
20	20	100.0	20	11	US-09-874-991C-181	Sequence 181, App
21	20	100.0	20	11	US-09-874-991C-206	Sequence 206, App
22	20	100.0	20	11	US-09-874-991C-422	Sequence 422, App
23	20	100.0	20	11	US-09-874-991C-441	Sequence 441, App
24	20	100.0	20	11	US-09-776-479-136	Sequence 136, App
25	20	100.0	20	11	US-09-776-479-759	Sequence 759, App
26	20	100.0	20	11	US-09-965-101-71	Sequence 71, Appl
27	20	100.0	20	13	US-10-023-909A-49	Sequence 49, Appl
28	20	100.0	20	13	US-10-074-956-2	Sequence 2, Appl
29	20	100.0	20	14	US-10-112-653-8	Sequence 8, Appl
30	20	100.0	20	14	US-10-112-653-129	Sequence 129, App
31	20	100.0	20	14	US-10-112-653-732	Sequence 732, App
32	20	100.0	20	14	US-10-017-995-136	Sequence 136, App
33	20	100.0	20	14	US-10-017-995-759	Sequence 759, App
34	20	100.0	20	14	US-10-300-247-49	Sequence 49, Appl
35	20	100.0	20	15	US-10-161-229-43	Sequence 43, Appl
36	20	100.0	20	16	US-10-187-264A-38	Sequence 38, Appl
37	20	100.0	20	16	US-10-365-072-94	Sequence 94, Appl
38	20	100.0	20	16	US-10-306-522-38	Sequence 38, Appl
39	20	100.0	20	17	US-10-314-578-136	Sequence 136, App
40	20	100.0	20	17	US-10-314-578-759	Sequence 759, App
41	20	100.0	20	17	US-10-434-696-49	Sequence 49, Appl
42	20	100.0	20	18	US-10-373-381-43	Sequence 43, Appl
43	20	100.0	20	18	US-10-373-381-44	Sequence 44, Appl
44	20	100.0	20	18	US-10-719-493-38	Sequence 38, Appl
45	20	100.0	20	19	US-10-627-331-38	Sequence 38, Appl

ALIGNMENTS

RESULT 1

US-09-824-468-48
; Sequence 48, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the Immune System Using Immunotherapeutic Oligonucleotides and Cytokines
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-48

Query Match 100.0% Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred.No. 4.3; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0

QY 1 TCCATGCTGCTTCCTGATGCT 20

Db 1 TCCATGTCGTTCCCTGATGCT 20
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RESULT 2
US-09-824-468-56
; Sequence 56, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-56

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||

Db 1 TCCATGTCGTTCCCTGATGCT 20
|||||

RESULT 3
US-09-824-468-57
; Sequence 57, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8) ... (8)
; OTHER INFORMATION: m5C
US-09-824-468-57

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||

Db 1 TCCATGTCGTTCCCTGATGCT 20
|||||

RESULT 4
US-09-800-266A-49
; Sequence 49, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-49

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||

Db 1 TCCATGTCGTTCCCTGATGCT 20
|||||

RESULT 5
US-09-895-007A-49
; Sequence 49, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-49

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||

Db 1 TCCATGTCGTTCCCTGATGCT 20
|||||

RESULT 6
US-09-920-313-49
; Sequence 49, Application US/09920313

; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/WAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-49

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 7

US-09-888-326-62/c
; Sequence 62, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther

; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-62

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 20 TCCATGTCGTTCTCTGATGCT 1

RESULT 8

US-09-888-326-611
; Sequence 611, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther

; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 611
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-611

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 9

US-09-818-918-43
; Sequence 43, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.

; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-43

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 10

US-09-818-918-53
; Sequence 53, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.

; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5C
US-09-818-918-53

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 11
US-09-931-583-57
; Sequence 57, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053(HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-57

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 12
US-09-776-479-136/c

; Sequence 136, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 136
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-136

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||
Db 20 TCCATGTCGTTCCCTGATGCT 1

RESULT 13
US-09-776-479-759
; Sequence 759, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 759
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-759

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 14
US-09-954-987B-96
; Sequence 96, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford

Search completed: July 28, 2005, 04:00:00
Job time : 431.125 secs

APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
FILE REFERENCE: C1041/7016 (AWS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 96
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-96

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 15

US-09-967-464-6
Sequence 6, Application US/09967464
Publication No. US20030138453A1
GENERAL INFORMATION:
APPLICANT: O'Hagan, Derek
APPLICANT: Otten, Gillis
APPLICANT: Donnelly, John J.
APPLICANT: Polo, John M.
APPLICANT: Barnett, Susan
APPLICANT: Singh, Mamohan
APPLICANT: Ulmer, Jeffrey
APPLICANT: Dubensky, Jr., Thomas W.
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF HETEROLOGOUS NUCLEIC ACIDS
FILE REFERENCE: PPI6269.004
CURRENT APPLICATION NUMBER: US/09/967,464
CURRENT FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: 60/236,105
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/315,905
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 68
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial sequence is synthesized
US-09-967-464-6

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
|||||
Db 1 TCCATGTCGTTCCCTGATGCT 20

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-43
Perfect score: 20
Sequence: 1 tccatgtcgttcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:
1: /cgn2_6/ptodata/1/ina/5A COMB.seq:
2: /cgn2_6/ptodata/1/ina/5B COMB.seq:
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:
5: /cgn2_6/ptodata/1/ina/PTUS COMB.seq:
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-08-738-652-43
2	20	100.0	20	3	US-08-738-652-53
3	20	100.0	20	3	US-09-030-701-5
4	20	100.0	20	3	US-09-286-098-48
5	20	100.0	20	3	US-09-286-098-56
6	20	100.0	20	3	US-09-286-098-57
7	20	100.0	20	3	US-08-960-774-38
8	20	100.0	20	3	US-09-082-649B-71
9	20	100.0	20	3	US-09-325-193A-49
10	20	100.0	20	3	US-09-191-170-43
11	20	100.0	20	3	US-09-191-170-51
12	20	100.0	20	4	US-09-337-619-38
13	20	100.0	20	4	US-09-965-101-71
14	19	95.0	20	4	US-09-030-701-25
15	19	95.0	20	3	US-08-960-774-44
16	19	95.0	20	3	US-09-082-649B-72
17	19	95.0	20	4	US-09-337-619-44
18	19	95.0	20	4	US-09-965-101-72
19	18.4	92.0	20	1	US-08-436-714-7
20	18.4	92.0	20	1	US-08-442-705-7
21	18.4	92.0	20	1	US-08-332-829-7
22	18.4	92.0	20	2	US-09-133-774-11
23	18.4	92.0	20	3	US-08-386-063-21
24	18.4	92.0	20	3	US-08-386-063-25
25	18.4	92.0	20	3	US-09-303-862-11
26	18.4	92.0	20	3	US-08-386-063-21
27	18.4	92.0	20	3	US-08-386-063-25

28	18.4	92.0	20	3	US-08-738-652-7	Sequence 7, Appli
29	18.4	92.0	20	3	US-08-738-652-31	Sequence 31, Appl
30	18.4	92.0	20	3	US-08-738-652-33	Sequence 33, Appl
31	18.4	92.0	20	3	US-08-738-652-34	Sequence 34, Appl
32	18.4	92.0	20	3	US-08-738-652-35	Sequence 35, Appl
33	18.4	92.0	20	3	US-08-738-652-37	Sequence 37, Appl
34	18.4	92.0	20	3	US-08-738-652-41	Sequence 41, Appl
35	18.4	92.0	20	3	US-08-738-652-42	Sequence 42, Appl
36	18.4	92.0	20	3	US-08-738-652-44	Sequence 44, Appl
37	18.4	92.0	20	3	US-08-738-652-54	Sequence 54, Appl
38	18.4	92.0	20	3	US-09-030-701-4	Sequence 4, Appli
39	18.4	92.0	20	3	US-09-286-098-22	Sequence 22, Appl
40	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
41	18.4	92.0	20	3	US-09-286-098-24	Sequence 24, Appl
42	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
43	18.4	92.0	20	3	US-09-286-098-46	Sequence 46, Appl
44	18.4	92.0	20	3	US-09-286-098-47	Sequence 47, Appl
45	18.4	92.0	20	3	US-08-960-774-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1
US-08-738-652-43
; Sequence 43, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-43

Query Match	100.0%	Score 20;	DB 3;	Length 20;
Best Local Similarity	100.0%	Pred. No. 0.81;	Mismatches 0;	Indels 0;
Matches	20;	Conservative	0;	Gaps 0;
Qy	1	TCCATGTCGTTCCCTGATGCT	20	
Db	1	TCCATGTCGTTCCCTGATGCT	20	

RESULT 2
US-08-738-652-53
; Sequence 53, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: msc
US-08-738-652-53

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 3

US-09-030-701-5
; Sequence 5, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide

US-09-030-701-5

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 4

US-09-286-098-48
; Sequence 48, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-48

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 5

US-09-286-098-56
; Sequence 56, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-56

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
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Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 6

US-09-286-098-57
; Sequence 57, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-57


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; NAME/KEY: modified base
; LOCATION: (8)....(8)
; OTHER INFORMATION: m5c
US-09-286-098-57

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 7
US-08-960-774-38
; Sequence 38, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-08-960-774-38

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 8
US-09-082-649B-71
; Sequence 71, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
```

```
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-71

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 9
US-09-325-193A-49
; Sequence 49, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-49

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 10
US-09-191-170-43
; Sequence 43, Application US/09191170
; Patent No. 6429199
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; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; PRIOR FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 11
US-09-191-170-51
; Sequence 51, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; PRIOR FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: mSc
US-09-191-170-51

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 12
US-09-337-619-38
; Sequence 38, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-38

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGTTCCCTGATGCT 20

RESULT 13
US-09-965-101-71
; Sequence 71, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-71

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 14

US-09-030-701-25
; Sequence 25, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (8)...(8)
; OTHER INFORMATION: any nucleotide
US-09-030-701-25

Query Match 95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 15

US-08-960-774-44
; Sequence 44, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996

; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 8...8
; OTHER INFORMATION: where N at position 8 is 5 methyl cytosine
US-08-960-774-44

Query Match 95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
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Db 1 TCCATGTCGTTCTCTGATGCT 20

Search completed: July 27, 2005, 18:00:03
Job time : 77 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-42

Perfect score: 20

Sequence: 1 tccatgtcgctctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	20	100.0	20	9	US-09-800-266A-40
3	20	100.0	20	9	US-09-895-007A-40
4	20	100.0	20	9	US-09-920-313-40
5	20	100.0	20	10	US-09-818-918-42
6	20	100.0	20	10	US-09-931-583-53
7	20	100.0	20	10	US-09-954-987B-92

8	20	100.0	20	11	US-09-874-991C-42
9	20	100.0	20	11	US-09-874-991C-108
10	20	100.0	20	11	US-09-874-991C-131
11	20	100.0	20	11	US-09-874-991C-159
12	20	100.0	20	11	US-09-874-991C-180
13	20	100.0	20	11	US-09-874-991C-205
14	20	100.0	20	11	US-09-874-991C-421
15	20	100.0	20	11	US-09-874-991C-440
16	20	100.0	20	13	US-10-023-909A-40
17	20	100.0	20	14	US-10-300-247-40
18	20	100.0	20	15	US-10-161-329-42
19	20	100.0	20	15	US-10-187-264A-37
20	20	100.0	20	16	US-10-285-072-90
21	20	100.0	20	16	US-10-306-522-37
22	20	100.0	20	17	US-10-434-696-40
23	20	100.0	20	18	US-10-373-381-35
24	20	100.0	20	18	US-10-719-493-37
25	20	100.0	20	19	US-10-627-331-37
26	20	100.0	20	19	US-10-666-733-40
27	20	100.0	20	19	US-10-743-625-42
28	20	100.0	20	19	US-10-769-282-42
29	20	100.0	20	19	US-10-817-165-42
30	20	100.0	20	20	US-10-857-733-3
31	20	100.0	20	20	US-10-877-407-45
32	20	100.0	20	20	US-10-877-369-35
33	20	100.0	20	20	US-10-816-220-40
34	20	100.0	20	20	US-10-876-892-35
35	20	100.0	20	20	US-10-876-965-35
36	20	100.0	20	20	US-10-888-886-40
37	20	100.0	20	21	US-10-847-642-42
38	20	100.0	20	21	US-10-888-785-42
39	20	100.0	20	21	US-10-649-584-53
40	20	100.0	20	21	US-10-831-775-40
41	20	100.0	20	21	US-10-888-449-42
42	20	100.0	20	21	US-10-894-862-45
43	20	100.0	20	21	US-10-894-657-45
44	20	100.0	20	21	US-10-884-852-42
45	20	100.0	20	21	US-10-613-916-42

ALIGNMENTS

RESULT 1

US-09-824-468-47
; Sequence 47, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the Immune System Using Immunotherapeutic Oligonucleotides and Cytokines
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: 2001-04-02
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-47

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20

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Db      1  TCCATGTCGCTCCTGATGCT 20
|||||
RESULT 2
US-09-800-266A-40
; Sequence 40, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-40
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGCTCCTGATGCT 20
|||||
Db      1  TCCATGTCGCTCCTGATGCT 20
|||||
RESULT 3
US-09-895-007A-40
; Sequence 40, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-40
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGCTCCTGATGCT 20
|||||
Db      1  TCCATGTCGCTCCTGATGCT 20
|||||
RESULT 4
US-09-931-583-53
; Sequence 53, Application US/09931583
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US-09-920-313-40
; Sequence 40, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-40
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGCTCCTGATGCT 20
|||||
Db      1  TCCATGTCGCTCCTGATGCT 20
|||||
RESULT 5
US-09-818-918-42
; Sequence 42, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-42
Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGCTCCTGATGCT 20
|||||
Db      1  TCCATGTCGCTCCTGATGCT 20
|||||
RESULT 6
US-09-931-583-53
; Sequence 53, Application US/09931583
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Publication No. US20030050263A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred
TITLE OF INVENTION: Methods and Products for Treating HIV Infection
FILE REFERENCE: C1039/7053(HCL)
CURRENT APPLICATION NUMBER: US/09/931,593
CURRENT FILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 09/415,142
PRIOR FILING DATE: 1998-10-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn version 3.0
SEQ ID NO 53
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-593-53

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 7

US-09-954-987B-92
Sequence 92, Application US/09954987B
Publication No. US20030104523A1
GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lipford
APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
FILE REFERENCE: C1041/7016 (AWS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 92
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-92

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20

Publication No. US20030050263A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred
TITLE OF INVENTION: Methods and Products for Treating HIV Infection
FILE REFERENCE: C1039/7053(HCL)
CURRENT APPLICATION NUMBER: US/09/931,593
CURRENT FILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 09/415,142
PRIOR FILING DATE: 1998-10-09
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn version 3.0
SEQ ID NO 53
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-593-53

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 8

US-09-874-991C-42
Sequence 42, Application US/09874991C
Publication No. US20040052763A1
GENERAL INFORMATION:
APPLICANT: MOND, JAMES J.
APPLICANT: FLORA, MICHAEL
APPLICANT: KLINMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787.0042-0
CURRENT APPLICATION NUMBER: US/09/874,991C
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 42
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-42

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 9

US-09-874-991C-108
Sequence 108, Application US/09874991C
Publication No. US20040052763A1
GENERAL INFORMATION:
APPLICANT: MOND, JAMES J.
APPLICANT: FLORA, MICHAEL
APPLICANT: KLINMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787.0042-0
CURRENT APPLICATION NUMBER: US/09/874,991C
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 108
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-108

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20

; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 2001-06-07
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 131
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-131

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 11
US-09-874-991C-159
; Sequence 159, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 159
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-159

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 12
US-09-874-991C-180
; Sequence 180, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07

; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 180
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-180

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 13
US-09-874-991C-205
; Sequence 205, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 205
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-205

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTGATGCT 20
|||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 14
US-09-874-991C-421
; Sequence 421, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 421
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-421

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
|||
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 15

US-09-874-991C-440
; Sequence 440, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 440
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-440

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
|||
Db 1 TCCATGTCGCTCCTGATGCT 20

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Job time : 431.125 secs

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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-42
Perfect score: 20
Sequence: 1 tccatgctcctcgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
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5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-08-738-652-42
2	20	100.0	20	3	US-09-030-701-4
3	20	100.0	20	3	US-09-286-098-47
4	20	100.0	20	3	US-08-960-774-37
5	20	100.0	20	3	US-09-325-193A-40
6	20	100.0	20	3	US-09-191-170-42
7	20	100.0	20	4	US-09-337-619-37
8	18.4	92.0	20	1	US-08-436-714-7
9	18.4	92.0	20	1	US-08-442-705-7
10	18.4	92.0	20	1	US-08-332-829-7
11	18.4	92.0	20	3	US-08-386-063-21
12	18.4	92.0	20	3	US-08-386-063-21
13	18.4	92.0	20	3	US-08-738-652-31
14	18.4	92.0	20	3	US-08-738-652-33
15	18.4	92.0	20	3	US-08-738-652-34
16	18.4	92.0	20	3	US-08-738-652-37
17	18.4	92.0	20	3	US-08-738-652-41
18	18.4	92.0	20	3	US-08-738-652-43
19	18.4	92.0	20	3	US-08-738-652-53
20	18.4	92.0	20	3	US-09-030-701-5
21	18.4	92.0	20	3	US-09-286-098-22
22	18.4	92.0	20	3	US-09-286-098-23
23	18.4	92.0	20	3	US-09-286-098-42
24	18.4	92.0	20	3	US-09-286-098-46
25	18.4	92.0	20	3	US-09-286-098-48
26	18.4	92.0	20	3	US-09-286-098-56
27	18.4	92.0	20	3	US-09-286-098-57

28	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
29	18.4	92.0	20	3	US-08-960-774-36	Sequence 36, Appl
30	18.4	92.0	20	3	US-08-960-774-38	Sequence 38, Appl
31	18.4	92.0	20	3	US-08-960-774-89	Sequence 89, Appl
32	18.4	92.0	20	3	US-09-082-649B-71	Sequence 71, Appl
33	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
34	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
35	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
36	18.4	92.0	20	3	US-09-325-193A-49	Sequence 39, Appl
37	18.4	92.0	20	3	US-09-325-193A-49	Sequence 49, Appl
38	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
39	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
40	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
41	18.4	92.0	20	3	US-09-191-170-41	Sequence 41, Appl
42	18.4	92.0	20	3	US-09-191-170-43	Sequence 43, Appl
43	18.4	92.0	20	3	US-09-191-170-51	Sequence 51, Appl
44	18.4	92.0	20	4	US-09-337-619-28	Sequence 28, Appl
45	18.4	92.0	20	4	US-09-337-619-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-42
; Sequence 42, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738.652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276.358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386.063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCCATGTCGCTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
DB 1 TCCATGTCGCTCCTGATGCT 20

RESULT 2
US-09-030-701-4
; Sequence 4, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF LPS-ASSOCIATED DISORDERS
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030.701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039.405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0

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; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-4

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTCATGCT 20
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Db 1 TCCATGTCGCTCCTCATGCT 20

RESULT 3
US-09-286-098-47
; Sequence 47, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-47

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTCATGCT 20
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Db 1 TCCATGTCGCTCCTCATGCT 20

RESULT 4
US-08-960-774-37
; Sequence 37, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
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; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-08-960-774-37

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTCATGCT 20
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Db 1 TCCATGTCGCTCCTCATGCT 20

RESULT 5
US-09-325-193A-40
; Sequence 40, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-40

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGCTCCTCATGCT 20
    |||||
Db 1 TCCATGTCGCTCCTCATGCT 20

RESULT 6
US-09-191-170-42
; Sequence 42, Application US/09191170
; Patent No. 6429199
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RESULT 8
US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536

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NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 7:

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; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGTCGCTCCTGATGCT 20
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Db       1  TCCATGTCGCTCCTGATGCT 20

RESULT 9
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull

```

```

? STATE: Connecticut
?
? COUNTRY: USA
?
? ZIP: 06611
?
? COMPUTER READABLE FORM:
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? MEDIUM TYPE: floppy disk
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? COMPUTER: Macintosh
?
? OPERATING SYSTEM: MS-DOS
?
? SOFTWARE: Microsoft Word 4.0
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SOFTWARE: MICROSOFT WORD 4.0
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442.705
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Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGTCGCTCCTCGATGCT 20
        |||||
Db       1  TCCATGTCGCTCCTCGATGCT 20

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RESULT 9
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442.705

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;
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 10
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; REFERENCE/DOCKET NUMBER: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skycop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20

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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 11
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 12
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 13
US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 14
US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358

; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-33

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

RESULT 15
US-08-738-652-34
; Sequence 34, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-08-738-652-34

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGCTCCTGATGCT 20
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Db 1 TCCATGTCGCTCCTGATGCT 20

Search completed: July 27, 2005, 18:00:03
Job time : 77 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-40

Perfect score: 20

Sequence: 1 tccatgacggtctgatgct 20

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Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/1/pubpna/PTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
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- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
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- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9	US-09-824-468-45
2	20	100.0	20	9	US-09-800-266A-38
3	20	100.0	20	9	US-09-895-007A-38
4	20	100.0	20	9	US-09-920-313-38
5	20	100.0	20	10	US-09-888-326-555
6	20	100.0	20	10	US-09-818-918-40
7	20	100.0	20	10	US-09-931-583-45

8	20	100.0	20	10	US-09-776-479-754	Sequence 754, App
9	20	100.0	20	10	US-09-954-987B-80	Sequence 80, Appl
10	20	100.0	20	11	US-09-874-991C-40	Sequence 40, Appl
11	20	100.0	20	11	US-09-874-991C-106	Sequence 106, App
12	20	100.0	20	11	US-09-874-991C-129	Sequence 129, App
13	20	100.0	20	11	US-09-874-991C-157	Sequence 157, App
14	20	100.0	20	11	US-09-874-991C-178	Sequence 178, App
15	20	100.0	20	11	US-09-874-991C-203	Sequence 203, App
16	20	100.0	20	11	US-09-874-991C-419	Sequence 419, App
17	20	100.0	20	11	US-09-874-991C-438	Sequence 438, App
18	20	100.0	20	11	US-09-776-479-754	Sequence 754, App
19	20	100.0	20	13	US-10-023-909A-38	Sequence 38, Appl
20	20	100.0	20	14	US-10-112-553-727	Sequence 727, App
21	20	100.0	20	14	US-10-017-995-754	Sequence 754, App
22	20	100.0	20	14	US-10-300-247-38	Sequence 38, Appl
23	20	100.0	20	15	US-10-161-229-40	Sequence 40, Appl
24	20	100.0	20	16	US-10-187-264A-35	Sequence 35, Appl
25	20	100.0	20	16	US-10-265-072-81	Sequence 81, Appl
26	20	100.0	20	16	US-10-306-522-35	Sequence 35, Appl
27	20	100.0	20	17	US-10-314-578-754	Sequence 754, App
28	20	100.0	20	17	US-10-434-696-38	Sequence 38, Appl
29	20	100.0	20	18	US-10-373-381-33	Sequence 33, Appl
30	20	100.0	20	18	US-10-719-493-35	Sequence 35, Appl
31	20	100.0	20	19	US-10-627-331-35	Sequence 35, Appl
32	20	100.0	20	19	US-10-666-733-38	Sequence 38, Appl
33	20	100.0	20	19	US-10-743-625-40	Sequence 40, Appl
34	20	100.0	20	19	US-10-769-282-40	Sequence 40, Appl
35	20	100.0	20	19	US-10-817-165-40	Sequence 40, Appl
36	20	100.0	20	20	US-10-877-407-35	Sequence 35, Appl
37	20	100.0	20	20	US-10-877-369-33	Sequence 33, Appl
38	20	100.0	20	20	US-10-816-220-38	Sequence 38, Appl
39	20	100.0	20	20	US-10-831-778-754	Sequence 754, App
40	20	100.0	20	20	US-10-876-892-33	Sequence 33, Appl
41	20	100.0	20	20	US-10-876-965-33	Sequence 33, Appl
42	20	100.0	20	20	US-10-888-886-38	Sequence 38, Appl
43	20	100.0	20	21	US-10-847-842-40	Sequence 40, Appl
44	20	100.0	20	21	US-10-888-785-40	Sequence 40, Appl
45	20	100.0	20	21	US-10-649-584-45	Sequence 45, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-45
; Sequence 45, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR FILING DATE: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-45

Query Match 100.0%; Score 20; DB 9; Length 20;

Best Local Similarity 100.0%; Pred. No. 4.9; Mismatches 0; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGCTCTGATGCT 20

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Db      1  TCCATGACGGTCTCTGATGCT 20
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RESULT 2
US-09-800-266A-38
; Sequence 38, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-38
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATGACGGTCTCTGATGCT 20
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Db      1  TCCATGACGGTCTCTGATGCT 20
|||||
RESULT 3
US-09-895-007A-38
; Sequence 38, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-38
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATGACGGTCTCTGATGCT 20
|||||
Db      1  TCCATGACGGTCTCTGATGCT 20
|||||
RESULT 4
US-09-818-918-40
; Sequence 38, Application US/09818918
; Patent No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-38
Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATGACGGTCTCTGATGCT 20
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Db      1  TCCATGACGGTCTCTGATGCT 20
|||||
RESULT 5
US-09-888-326-555
; Sequence 555, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 555
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)-(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-555
Query Match      100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATGACGGTCTCTGATGCT 20
|||||
Db      1  TCCATGACGGTCTCTGATGCT 20
|||||
RESULT 6
US-09-818-918-40
; Sequence 40, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
```

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US/08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US/08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US/08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-40

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCTGTGCT 20
|||||
DB 1 TCCATGACGGTCTGTGCT 20

RESULT 7
US-09-931-583-45
; Sequence 45, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US/08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US/09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-45

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCTGTGCT 20
|||||
DB 1 TCCATGACGGTCTGTGCT 20

RESULT 8
US-09-776-479-754
; Sequence 754, Application US/09776479
; Publication No. US20030087848A1

; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/06/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 754
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-754

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCTGTGCT 20
|||||
DB 1 TCCATGACGGTCTGTGCT 20

RESULT 9
US-09-954-987B-80
; Sequence 80, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US/06/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US/06/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US/06/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US/06/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 80
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-80

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGGTCTGTGCT 20
|||||
DB 1 TCCATGACGGTCTGTGCT 20

RESULT 10
US-09-874-991C-40
; Sequence 40, Application US/09874991C

; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-40

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 11

US-09-874-991C-106
; Sequence 106, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 106
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-106

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 12

US-09-874-991C-129
; Sequence 129, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0

; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-129

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 13

US-09-874-991C-157
; Sequence 157, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 157
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-157

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 14

US-09-874-991C-178
; Sequence 178, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 178

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-178

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
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Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 15
US-09-874-991C-203
; Sequence 203, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 203
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-203

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
|||
Db 1 TCCATGACGGTCCTGATGCT 20

Search completed: July 28, 2005, 03:59:58
Job time : 430.125 secs

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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-40

Perfect score: 20

Sequence: 1 tccatgacggctcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

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- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-08-738-652-40
2	20	100.0	20	3	US-09-286-098-45
3	20	100.0	20	3	US-08-960-774-35
4	20	100.0	20	3	US-09-325-193A-38
5	20	100.0	20	3	US-09-191-170-40
6	20	100.0	20	4	US-09-337-619-35
7	18.4	92.0	20	1	US-08-436-714-7
8	18.4	92.0	20	1	US-08-442-705-7
9	18.4	92.0	20	1	US-08-332-829-7
10	18.4	92.0	20	2	US-09-133-774-11
11	18.4	92.0	20	3	US-08-386-063-21
12	18.4	92.0	20	3	US-08-386-063-25
13	18.4	92.0	20	3	US-09-303-862-11
14	18.4	92.0	20	3	US-08-386-063-21
15	18.4	92.0	20	3	US-08-386-063-25
16	18.4	92.0	20	3	US-08-738-652-7
17	18.4	92.0	20	3	US-08-738-652-31
18	18.4	92.0	20	3	US-08-738-652-33
19	18.4	92.0	20	3	US-08-738-652-34
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22	18.4	92.0	20	3	US-08-738-652-38
23	18.4	92.0	20	3	US-08-738-652-39
24	18.4	92.0	20	3	US-08-738-652-44
25	18.4	92.0	20	3	US-08-738-652-54
26	18.4	92.0	20	3	US-09-286-098-22
27	18.4	92.0	20	3	US-09-286-098-23

28	18.4	92.0	20	3	US-09-286-098-24	Sequence 24, Appl
29	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
30	18.4	92.0	20	3	US-09-286-098-43	Sequence 43, Appl
31	18.4	92.0	20	3	US-09-286-098-44	Sequence 44, Appl
32	18.4	92.0	20	3	US-08-960-774-7	Sequence 7, Appl
33	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
34	18.4	92.0	20	3	US-08-960-774-33	Sequence 33, Appl
35	18.4	92.0	20	3	US-08-960-774-34	Sequence 34, Appl
36	18.4	92.0	20	3	US-08-960-774-87	Sequence 87, Appl
37	18.4	92.0	20	3	US-08-960-774-89	Sequence 89, Appl
38	18.4	92.0	20	3	US-09-082-649B-68	Sequence 68, Appl
39	18.4	92.0	20	3	US-09-082-649B-79	Sequence 79, Appl
40	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
41	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
42	18.4	92.0	20	3	US-09-325-193A-19	Sequence 19, Appl
43	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
44	18.4	92.0	20	3	US-09-325-193A-36	Sequence 36, Appl
45	18.4	92.0	20	3	US-09-325-193A-37	Sequence 37, Appl

ALIGNMENTS

RESULT 1

US-08-738-652-40
; Sequence 40, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-40

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGACGGTCCCTGATGCT 20

RESULT 2

US-09-286-098-45
; Sequence 45, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the Immune System Using Immunotherapeutic Oligonucleotides and Cytokines
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0

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; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-45

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 3
US-08-960-774-35
; Sequence 35, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION NUMBER:
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-35

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 4
US-09-325-193A-38
; Sequence 38, Application US/09325193A
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; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-38

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCTCTGATGCT 20

RESULT 5
US-09-191-170-40
; Sequence 40, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 40
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-40

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTCTGATGCT 20
    |||||
Db 1 TCCATGACGGTCTCTGATGCT 20
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RESULT 6

US-09-337-619-35
; Sequence 35, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-35

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTGATGCT 20
Db 1 TCCATGACGGTCTGATGCT 20

RESULT 7

US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTGATGCT 20
Db 1 TCCATGACGGTCTGATGCT 20

RESULT 8

US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Processes
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCTGATGCT 20
Db 1 TCCATGACGGTCTGATGCT 20

RESULT 9

US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide

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; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10
US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGACGGTCCTGATGCT 20

RESULT 11
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-25

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Mismatches 0; Indels 1; Gaps 0;

QY 1 TCCATGACGGTCTGTATGCT 20
|||||
DB 1 TCCATGACGGTCTGTATGCT 20

RESULT 13
US-09-303-862-11
Sequence 11, Application US/09303862
Patent No. 6034230
GENERAL INFORMATION:
APPLICANT: Bachmaier, Kurt
APPLICANT: Hessel, Andrew J.
APPLICANT: Neu M.D., Nikolaus
APPLICANT: Penninger, Josef M.
TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
FILE REFERENCE: A-536
CURRENT APPLICATION NUMBER: US/09/303,862
CURRENT FILING DATE: 1999-05-03
EARLIER APPLICATION NUMBER: 09/133,774
EARLIER FILING DATE: 1998-08-12
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 20
TYPE: DNA
ORGANISM: Chlamydia trachomatis
FEATURE:
OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Mismatches 0; Indels 1; Gaps 0;

QY 1 TCCATGACGGTCTGTATGCT 20
|||||
DB 1 TCCATGACGGTCTGTATGCT 20

RESULT 14
US-08-386-063-21
Sequence 21, Application US/08386063
Patent No. 6194388
GENERAL INFORMATION:
APPLICANT: Arthur M. Krieg, M.D.

TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Mismatches 0; Indels 1; Gaps 0;

QY 1 TCCATGACGGTCTGTATGCT 20
|||||
DB 1 TCCATGACGGTCTGTATGCT 20

RESULT 15
US-08-386-063-25
Sequence 25, Application US/08386063
Patent No. 6194388
GENERAL INFORMATION:
APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400

```
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 20 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA
US-08-386-063-25

Query Match      92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 8.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGACGTCCTGATGCT 20
        |||||
Db      1  TCCATGACGTCCTGATGCT 20

Search completed: July 27, 2005, 18:00:03
Job time : 77 secs
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-39

Perfect score: 20

Sequence: 1 tccatggcggtctgatgct 20

Scoring table: IDENTITY NUC

Gapop 10_0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

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- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
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- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
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- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9	US-09-824-468-44
2	20	100.0	20	9	US-09-800-266A-37
3	20	100.0	20	9	US-09-895-007A-37
4	20	100.0	20	9	US-09-920-313-37
5	20	100.0	20	10	US-09-888-326-595
6	20	100.0	20	10	US-09-818-918-39
7	20	100.0	20	10	US-09-931-583-51

8	20	100.0	20	10	US-09-776-479-755	Sequence 755, App
9	20	100.0	20	10	US-09-954-987B-90	Sequence 90, Appl
10	20	100.0	20	11	US-09-874-991C-39	Sequence 39, Appl
11	20	100.0	20	11	US-09-874-991C-105	Sequence 105, App
12	20	100.0	20	11	US-09-874-991C-128	Sequence 128, App
13	20	100.0	20	11	US-09-874-991C-156	Sequence 156, App
14	20	100.0	20	11	US-09-874-991C-177	Sequence 177, App
15	20	100.0	20	11	US-09-874-991C-202	Sequence 202, App
16	20	100.0	20	11	US-09-874-991C-418	Sequence 418, App
17	20	100.0	20	11	US-09-874-991C-437	Sequence 437, App
18	20	100.0	20	11	US-09-776-479-755	Sequence 755, App
19	20	100.0	20	13	US-10-023-909A-37	Sequence 37, Appl
20	20	100.0	20	14	US-10-112-653-728	Sequence 728, App
21	20	100.0	20	14	US-10-017-995-755	Sequence 755, App
22	20	100.0	20	14	US-10-300-247-37	Sequence 37, Appl
23	20	100.0	20	15	US-10-161-229-39	Sequence 39, Appl
24	20	100.0	20	16	US-10-187-264A-34	Sequence 34, Appl
25	20	100.0	20	16	US-10-265-072-88	Sequence 88, Appl
26	20	100.0	20	16	US-10-306-522-34	Sequence 34, Appl
27	20	100.0	20	17	US-10-314-578-755	Sequence 755, App
28	20	100.0	20	17	US-10-434-696-37	Sequence 37, Appl
29	20	100.0	20	18	US-10-373-381-32	Sequence 32, Appl
30	20	100.0	20	18	US-10-719-493-34	Sequence 34, Appl
31	20	100.0	20	19	US-10-627-331-34	Sequence 34, Appl
32	20	100.0	20	19	US-10-666-733-37	Sequence 37, Appl
33	20	100.0	20	19	US-10-743-625-39	Sequence 39, Appl
34	20	100.0	20	19	US-10-769-282-39	Sequence 39, Appl
35	20	100.0	20	19	US-10-817-165-39	Sequence 39, Appl
36	20	100.0	20	20	US-10-877-407-43	Sequence 43, Appl
37	20	100.0	20	20	US-10-877-369-32	Sequence 32, Appl
38	20	100.0	20	20	US-10-816-220-37	Sequence 37, Appl
39	20	100.0	20	20	US-10-831-778-755	Sequence 755, App
40	20	100.0	20	20	US-10-876-892-32	Sequence 32, Appl
41	20	100.0	20	20	US-10-876-965-32	Sequence 32, Appl
42	20	100.0	20	20	US-10-888-896-37	Sequence 37, Appl
43	20	100.0	20	21	US-10-847-642-39	Sequence 39, Appl
44	20	100.0	20	21	US-10-888-785-39	Sequence 39, Appl
45	20	100.0	20	21	US-10-649-584-51	Sequence 51, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-44
; Sequence 44, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C10397026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; US-09-824-468-44

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGTCTGATGCT 20

Db 1 TCCATGGCGGTCCTGATGCT 20
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RESULT 2

US-09-800-266A-37
; Sequence 37, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-37

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 3

US-09-895-007A-37
; Sequence 37, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-37

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 4

US-09-920-313-37
; Sequence 37, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-37

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 5

US-09-888-326-595
; Sequence 595, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 595
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-595

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 6

US-09-818-918-39
; Sequence 39, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-39

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 7
US-09-931-583-51
; Sequence 51, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-51

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 8
US-09-776-479-755
; Sequence 755, Application US/09776479
; Publication No. US20030087848A1

; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 755
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-755

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 9
US-09-954-987B-90
; Sequence 90, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-90

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
|||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 10
US-09-874-991C-39
; Sequence 39, Application US/09874991C

; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-39

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 11
US-09-874-991C-105
; Sequence 105, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-105

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 12
US-09-874-991C-128
; Sequence 128, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0

; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 128
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-128

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Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
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Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 13
US-09-874-991C-156
; Sequence 156, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 156
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-156

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 14
US-09-874-991C-177
; Sequence 177, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 177


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; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-177

Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGGCGGTCCTCATGCT 20
        |||||
DB       1 TCCATGGCGGTCCTCATGCT 20

RESULT 15
US-09-874-991C-202
; Sequence 202, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 202
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-202

Query Match      100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGGCGGTCCTCATGCT 20
        |||||
DB       1 TCCATGGCGGTCCTCATGCT 20
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Job time : 430.125 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-39

Perfect score: 20

Sequence: 1 tccatggcggtcctgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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6: /cgn2_6/prodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-08-738-652-39
2	20	100.0	20	3	US-09-286-098-44
3	20	100.0	20	3	US-08-960-774-34
4	20	100.0	20	3	US-09-325-193A-37
5	20	100.0	20	3	US-09-191-170-39
6	20	100.0	20	4	US-09-337-619-34
7	18.4	92.0	20	1	US-08-436-714-7
8	18.4	92.0	20	1	US-08-442-705-7
9	18.4	92.0	20	1	US-08-332-829-7
10	18.4	92.0	20	3	US-08-386-063-21
11	18.4	92.0	20	3	US-08-386-063-21
12	18.4	92.0	20	3	US-08-738-652-31
13	18.4	92.0	20	3	US-08-738-652-33
14	18.4	92.0	20	3	US-08-738-652-34
15	18.4	92.0	20	3	US-08-738-652-38
16	18.4	92.0	20	3	US-08-738-652-38
17	18.4	92.0	20	3	US-08-738-652-40
18	18.4	92.0	20	3	US-09-286-098-22
19	18.4	92.0	20	3	US-09-286-098-23
20	18.4	92.0	20	3	US-09-286-098-42
21	18.4	92.0	20	3	US-09-286-098-43
22	18.4	92.0	20	3	US-09-286-098-45
23	18.4	92.0	20	3	US-08-774-28
24	18.4	92.0	20	3	US-08-960-774-33
25	18.4	92.0	20	3	US-08-960-774-35
26	18.4	92.0	20	3	US-08-960-774-101
27	18.4	92.0	20	3	US-08-960-774-102

28	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
29	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
30	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
31	18.4	92.0	20	3	US-09-325-193A-36	Sequence 36, Appl
32	18.4	92.0	20	3	US-09-325-193A-38	Sequence 38, Appl
33	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
34	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
35	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
36	18.4	92.0	20	3	US-09-191-170-38	Sequence 40, Appl
37	18.4	92.0	20	3	US-09-191-170-40	Sequence 38, Appl
38	18.4	92.0	20	4	US-09-337-619-28	Sequence 28, Appl
39	18.4	92.0	20	4	US-09-337-619-33	Sequence 33, Appl
40	18.4	92.0	20	4	US-09-337-619-35	Sequence 35, Appl
41	18.4	92.0	25	4	US-09-396-196G-52295	Sequence 52295, A
42	18.4	92.0	25	4	US-09-396-196G-52296	Sequence 52296, A
43	18.4	92.0	1237	1	US-08-798-000-2	Sequence 2, Appl
44	18.4	92.0	2002	3	US-09-315-127-7	Sequence 7, Appl
45	18.4	92.0	3925	3	US-09-011-745-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1

US-08-738-652-39
; Sequence 39, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-39

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGCGGTCCTGATGCT 20
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 2

US-09-286-098-44
; Sequence 44, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weier, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0

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; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-44

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 3
US-08-960-774-34
; Sequence 34, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-960-774-34

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 4
US-09-325-193A-37
; Sequence 37, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; OTHER INFORMATION: Unmethylated CpG Dinucleotide as an Adjuvant
FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-37

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 5
US-09-191-170-39
; Sequence 39, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; OTHER INFORMATION: for Activating Dendritic Cells
FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-39

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20
    |||||
Db 1 TCCATGGCGGTCCTGATGCT 20
```

RESULT 6

US-09-337-619-34

; Sequence 34, Application US/09337619

; Patent No. 5653292

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Methods of Treating Cancer Using

; FILE REFERENCE: C10319/7021/HCL

; CURRENT APPLICATION NUMBER: US/09/337,619

; EARLIER FILING DATE: 1999-06-21

; EARLIER APPLICATION NUMBER: US 08/960,774

; EARLIER FILING DATE: 1997-10-30

; EARLIER APPLICATION NUMBER: US 08/738,652

; EARLIER FILING DATE: 1996-10-30

; EARLIER APPLICATION NUMBER: US 08/386,063

; EARLIER FILING DATE: 1995-02-07

; EARLIER APPLICATION NUMBER: US 08/276,358

; EARLIER FILING DATE: 1994-07-15

; NUMBER OF SEQ ID NOS: 123

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 34

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Oligonucleotide

US-09-337-619-34

Query Match

Best Local Similarity 100.0%; Score 20; DB 4; Length 20;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20

Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 7

US-08-436-714-7

; Sequence 7, Application US/08436714

; Patent No. 5602244

; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Yahwak & Associates

; STREET: 25 Skytop Drive

; CITY: Trumbull

; STATE: Connecticut

; COUNTRY: USA

; ZIP: 06611

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; COMPUTER: Macintosh

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Microsoft Word 4.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/436,714

; FILING DATE:

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: George M. Yahwak

; REGISTRATION NUMBER: 26,824

; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951

; TELEFAX: (203)268-1951

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; APPLICANT: Marvin H. Caruthers et al

; GENERAL INFORMATION:

; Patent No. 5750666

; Sequence 7, Application US/08332829

; US-08-332-829-7

; RESULT 9

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

US-08-436-714-7

Query Match

Best Local Similarity 92.0%; Score 18.4; DB 1; Length 20;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20

Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 8

US-08-442-705-7

; Sequence 7, Application US/08442705

; Patent No. 5684148

; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Yahwak & Associates

; STREET: 25 Skytop Drive

; CITY: Trumbull

; STATE: Connecticut

; COUNTRY: USA

; ZIP: 06611

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; COMPUTER: Macintosh

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: Microsoft Word 4.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/442,705

; FILING DATE:

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: George M. Yahwak

; REGISTRATION NUMBER: 26,824

; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (203)268-1951

; TELEFAX: (203)268-1951

; INFORMATION FOR SEQ ID NO: 7:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

US-08-442-705-7

Query Match

Best Local Similarity 92.0%; Score 18.4; DB 1; Length 20;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCCTGATGCT 20

Db 1 TCCATGGCGGTCCTGATGCT 20

RESULT 9

US-08-332-829-7

; Sequence 7, Application US/08332829

; Patent No. 5750666

; GENERAL INFORMATION:

; APPLICANT: Marvin H. Caruthers et al

; TITLE OF INVENTION: Nucleoside and Polynucleotide

; GENERAL INFORMATION:

; Patent No. 5750666

; Sequence 7, Application US/08332829

; US-08-332-829-7

; RESULT 9

```

; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 7
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-332-829-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCTCTGATGCT 20
    ||||| ||||| ||||| |||||
DB 1 TCCATGTCGGTCCTGATGCT 20

RESULT 10
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCTCTGATGCT 20
    ||||| ||||| ||||| |||||
DB 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400

```

```

; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCTCTGATGCT 20
    ||||| ||||| ||||| |||||
DB 1 TCCATGTCGGTCCTGATGCT 20

RESULT 11
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGGCGGTCTCTGATGCT 20
    ||||| ||||| ||||| |||||
DB 1 TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400

```

; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

QY 1 TCCATGGCGTCTCATGCT 20
|||||
DB 1 TCCATGTCGGTCTCATGCT 20

RESULT 13
US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-33

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

QY 1 TCCATGGCGTCTCATGCT 20
|||||
DB 1 TCCATGTCGGTCTCATGCT 20

RESULT 14
US-08-738-652-34
; Sequence 34, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL

; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-08-738-652-34

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

QY 1 TCCATGGCGTCTCATGCT 20
|||||
DB 1 TCCATGTCGGTCTCATGCT 20

RESULT 15
US-08-738-652-37
; Sequence 37, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-37

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 22;
Matches 19; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

QY 1 TCCATGGCGTCTCATGCT 20
|||||
DB 1 TCCATGTCGGTCTCATGCT 20

Search completed: July 27, 2005, 18:00:03
Job time : 78 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-38
Perfect score: 20
Sequence: 1 tccatgcccgtcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum Match 100%

Listing first 45 summaries

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Published Applications NA.*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9	US-09-824-468-43
2	20	100.0	20	9	US-09-800-266A-36
3	20	100.0	20	9	US-09-895-007A-36
4	20	100.0	20	9	US-09-920-313-36
5	20	100.0	20	10	US-09-888-326-585
6	20	100.0	20	10	US-09-818-918-38
7	20	100.0	20	10	US-09-931-583-49

8	20	100.0	20	10	US-09-776-479-775	Sequence 775, Appl
9	20	100.0	20	10	US-09-954-987B-86	Sequence 86, Appl
10	20	100.0	20	11	US-09-776-479-775	Sequence 775, Appl
11	20	100.0	20	13	US-10-023-909A-36	Sequence 36, Appl
12	20	100.0	20	14	US-10-112-653-748	Sequence 748, Appl
13	20	100.0	20	14	US-10-017-995-775	Sequence 775, Appl
14	20	100.0	20	14	US-10-300-247-36	Sequence 36, Appl
15	20	100.0	20	15	US-10-161-229-38	Sequence 38, Appl
16	20	100.0	20	16	US-10-187-264A-33	Sequence 33, Appl
17	20	100.0	20	16	US-10-265-072-85	Sequence 85, Appl
18	20	100.0	20	16	US-10-306-522-33	Sequence 33, Appl
19	20	100.0	20	17	US-10-314-578-775	Sequence 775, Appl
20	20	100.0	20	17	US-10-434-596-36	Sequence 36, Appl
21	20	100.0	20	18	US-10-373-381-31	Sequence 31, Appl
22	20	100.0	20	18	US-10-719-493-33	Sequence 33, Appl
23	20	100.0	20	19	US-10-627-331-33	Sequence 33, Appl
24	20	100.0	20	19	US-10-666-733-36	Sequence 36, Appl
25	20	100.0	20	19	US-10-743-625-38	Sequence 38, Appl
26	20	100.0	20	19	US-10-769-282-38	Sequence 38, Appl
27	20	100.0	20	19	US-10-817-165-38	Sequence 38, Appl
28	20	100.0	20	20	US-10-877-407-40	Sequence 40, Appl
29	20	100.0	20	20	US-10-877-369-31	Sequence 31, Appl
30	20	100.0	20	20	US-10-816-320-36	Sequence 36, Appl
31	20	100.0	20	20	US-10-831-778-775	Sequence 775, Appl
32	20	100.0	20	20	US-10-876-892-31	Sequence 31, Appl
33	20	100.0	20	20	US-10-876-965-31	Sequence 31, Appl
34	20	100.0	20	20	US-10-888-886-36	Sequence 36, Appl
35	20	100.0	20	21	US-10-847-642-38	Sequence 38, Appl
36	20	100.0	20	21	US-10-888-785-38	Sequence 38, Appl
37	20	100.0	20	21	US-10-649-584-49	Sequence 49, Appl
38	20	100.0	20	21	US-10-831-775-36	Sequence 36, Appl
39	20	100.0	20	21	US-10-888-449-38	Sequence 38, Appl
40	20	100.0	20	21	US-10-894-862-40	Sequence 40, Appl
41	20	100.0	20	21	US-10-894-657-40	Sequence 40, Appl
42	20	100.0	20	21	US-10-884-852-38	Sequence 38, Appl
43	20	100.0	20	21	US-10-613-316-38	Sequence 38, Appl
44	20	100.0	20	21	US-10-627-413-33	Sequence 33, Appl
45	20	100.0	20	21	US-10-921-086-33	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-43
; Sequence 43, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCl
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-43

Query Match 100.0% Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred.No. 8.8; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;
QY 1 TCCATGCCGTCCTGATGCT 20

Db 1 TCCATGCCGGTCTCTGATGCT 20
|||||

RESULT 2

US-09-800-266A-36
; Sequence 36, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-36

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCTCTGATGCT 20
|||||

RESULT 3

US-09-895-007A-36
; Sequence 36, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TITLE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-36

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCTCTGATGCT 20
|||||

RESULT 4

US-09-920-313-36
; Sequence 36, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-36

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
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Db 1 TCCATGCCGGTCTCTGATGCT 20
|||||

RESULT 5

US-09-888-326-585
; Sequence 585, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 585
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (0)-(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-585

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCTCTGATGCT 20
|||||

RESULT 6

US-09-818-918-38
; Sequence 38, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-38

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
DB 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 7
US-09-931-583-49
; Sequence 49, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-49

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
DB 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 8
US-09-776-479-775
; Sequence 775, Application US/09776479
; Publication No. US20030087848A1

; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-775

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
DB 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 9
US-09-954-987B-86
; Sequence 86, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-86

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
DB 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 10
US-09-776-479-775
; Sequence 775, Application US/09776479

; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-775

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 11
US-10-023-909A-36
; Sequence 36, Application US/10023909A
; Publication No. US20020164341A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/023,909A
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-023-909A-36

Query Match 100.0%; Score 20; DB 13; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 12
US-10-112-653-748

; Sequence 748, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 748
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-748

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 13
US-10-017-995-775
; Sequence 775, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 775
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-775

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 14
US-10-300-247-36
; Sequence 36, Application US/10300247
; Publication No. US20030091599A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7058/HCL

; CURRENT APPLICATION NUMBER: US/10/300,247
; CURRENT FILING DATE: 2002-11-20
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-300-247-36

Query Match 100.0%; Score 20; DB 14; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 15
US-10-161-229-38
; Sequence 38, Application US/10161229
; Publication No. US20030100527A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules for
; FILE REFERENCE: C01039/70061
; CURRENT APPLICATION NUMBER: US/10/161,229
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: US 09/191,170
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-161-229-38

Query Match 100.0%; Score 20; DB 15; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCTCTGATGCT 20
Db 1 TCCATGCCGGTCTCTGATGCT 20

Search completed: July 28, 2005, 03:59:58
Job time : 433.125 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-38

Perfect score: 20

Sequence: 1 tccatgcggctcctgatgct 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

- 1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PTCUS_COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-08-738-652-38
2	20	100.0	20	3	US-09-286-098-43
3	20	100.0	20	3	US-08-960-774-34
4	20	100.0	20	3	US-09-325-193A-17
5	20	100.0	20	3	US-09-191-170-20
6	20	100.0	20	4	US-09-337-619-33
7	18.4	92.0	20	1	US-08-436-714-7
8	18.4	92.0	20	1	US-08-442-705-7
9	18.4	92.0	20	1	US-08-332-829-7
10	18.4	92.0	20	3	US-08-386-063-21
11	18.4	92.0	20	3	US-08-386-063-22
12	18.4	92.0	20	3	US-08-386-063-21
13	18.4	92.0	20	3	US-08-386-063-22
14	18.4	92.0	20	3	US-08-738-652-31
15	18.4	92.0	20	3	US-08-738-652-32
16	18.4	92.0	20	3	US-08-738-652-33
17	18.4	92.0	20	3	US-08-738-652-34
18	18.4	92.0	20	3	US-08-738-652-37
19	18.4	92.0	20	3	US-08-738-652-39
20	18.4	92.0	20	3	US-08-738-652-40
21	18.4	92.0	20	3	US-09-286-098-21
22	18.4	92.0	20	3	US-09-286-098-22
23	18.4	92.0	20	3	US-09-286-098-23
24	18.4	92.0	20	3	US-09-286-098-42
25	18.4	92.0	20	3	US-09-286-098-44
26	18.4	92.0	20	3	US-09-286-098-45
27	18.4	92.0	20	3	US-08-960-774-28

28	18.4	92.0	20	3	US-08-960-774-29	Sequence 29, Appl
29	18.4	92.0	20	3	US-08-960-774-34	Sequence 34, Appl
30	18.4	92.0	20	3	US-08-960-774-35	Sequence 35, Appl
31	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
32	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
33	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
34	18.4	92.0	20	3	US-09-325-193A-37	Sequence 37, Appl
35	18.4	92.0	20	3	US-09-325-193A-38	Sequence 38, Appl
36	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
37	18.4	92.0	20	3	US-09-191-170-21	Sequence 21, Appl
38	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
39	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
40	18.4	92.0	20	3	US-09-191-170-39	Sequence 39, Appl
41	18.4	92.0	20	3	US-09-191-170-40	Sequence 40, Appl
42	18.4	92.0	20	4	US-09-337-619-28	Sequence 28, Appl
43	18.4	92.0	20	4	US-09-337-619-29	Sequence 29, Appl
44	18.4	92.0	20	4	US-09-337-619-34	Sequence 34, Appl
45	18.4	92.0	20	4	US-09-337-619-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1
US-08-738-652-38
; Sequence 38, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-38

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCCATGCCGGTCTTGATGCT 20
Db 1 TCCATGCCGGTCTTGATGCT 20

RESULT 2

US-09-286-098-43
; Sequence 43, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Methods and Products for Stimulating the
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 3
US-08-960-774-33
; Sequence 33, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-33

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 4
US-09-325-193A-36
; Sequence 36, Application US/09325193A

; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-36

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 5
US-09-191-170-38
; Sequence 38, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-38

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

Qy 1 TCCATGCCGGTCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCTGATGCT 20

RESULT 6

US-09-337-619-33
; Sequence 33, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-33

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCCTGATGCT 20

RESULT 7

US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; FILE REFERENCE: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCCTGATGCT 20

RESULT 8

US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; FILE REFERENCE: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-442-705-7

Query Match 92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGCCGGTCCCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCCCTGATGCT 20

RESULT 9

US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide

```
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Process
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-332-829-7

Query Match          92.0%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGCCGTCCTGATGCT 20
        ||||| ||||| ||||| |||||
DB      1  TCCATGTCGGTCCTGATGCT 20

RESULT 10
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-22

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGCCGTCCTGATGCT 20
        ||||| ||||| ||||| |||||
DB      1  TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; TELEPHONE: (617)227-7400
```

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; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-21

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGCCGTCCTGATGCT 20
        ||||| ||||| ||||| |||||
DB      1  TCCATGTCGGTCCTGATGCT 20

RESULT 11
US-08-386-063-22
; Sequence 22, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-386-063-22

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGCCGTCCTGATGCT 20
        ||||| ||||| ||||| |||||
DB      1  TCCATGTCGGTCCTGATGCT 20

RESULT 12
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; TELEPHONE: (617)227-7400
```

APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-21

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 13
US-08-386-063-22
Sequence 22, Application US/08386063
Patent No. 6194388
GENERAL INFORMATION:
APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-22

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 14
US-08-738-652-31
Sequence 31, Application US/08738652B
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 31
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCTCTGATGCT 20
|||||
Db 1 TCCATGCCGGTCTCTGATGCT 20

RESULT 15
US-08-738-652-32
Sequence 32, Application US/08738652B
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 32
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence

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; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-32

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 15;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGCCGGTCCTGATGCT 20
   ||||| ||||| ||||| |||||
Db 1 TCCATGCTGGTCCTGATGCT 20

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Search completed: July 27, 2005, 18:00:02
Job time : 77 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model.

Run on: July 27, 2005, 17:39:28 ; Search time 430.125 Seconds
(without alignments)
300.670 Million cell updates/sec

Title: US-09-818-918-37
Perfect score: 20
Sequence: 1 tccatgctggctcgtgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7277826 seqs, 3233139505 residues

Total number of hits satisfying chosen parameters: 14555652

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
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- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
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- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
- 20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
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- 23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	9	US-09-466-320-24
2	20	100.0	20	9	US-09-824-468-22
3	20	100.0	20	9	US-09-824-468-23
4	20	100.0	20	9	US-09-824-468-42
5	20	100.0	20	9	US-09-800-266A-17
6	20	100.0	20	9	US-09-800-266A-18
7	20	100.0	20	9	US-09-800-266A-35

8	20	100.0	20	9	US-09-895-007A-17	Sequence 17, Appl
9	20	100.0	20	9	US-09-895-007A-18	Sequence 18, Appl
10	20	100.0	20	9	US-09-895-007A-35	Sequence 35, Appl
11	20	100.0	20	9	US-09-920-313-17	Sequence 17, Appl
12	20	100.0	20	9	US-09-920-313-18	Sequence 18, Appl
13	20	100.0	20	9	US-09-920-313-35	Sequence 35, Appl
14	20	100.0	20	10	US-09-415-142-21	Sequence 21, Appl
15	20	100.0	20	10	US-09-888-326-63	Sequence 63, Appl
16	20	100.0	20	10	US-09-888-326-603	Sequence 603, App
17	20	100.0	20	10	US-09-888-326-604	Sequence 604, App
18	20	100.0	20	10	US-09-818-918-31	Sequence 31, Appl
19	20	100.0	20	10	US-09-818-918-33	Sequence 33, Appl
20	20	100.0	20	10	US-09-818-918-34	Sequence 34, Appl
21	20	100.0	20	10	US-09-818-918-37	Sequence 37, Appl
22	20	100.0	20	10	US-09-931-583-21	Sequence 21, Appl
23	20	100.0	20	10	US-09-931-583-54	Sequence 54, Appl
24	20	100.0	20	10	US-09-776-479-389	Sequence 389, App
25	20	100.0	20	10	US-09-776-479-395	Sequence 395, App
26	20	100.0	20	10	US-09-776-479-463	Sequence 463, App
27	20	100.0	20	10	US-09-776-479-466	Sequence 466, App
28	20	100.0	20	10	US-09-776-479-573	Sequence 573, App
29	20	100.0	20	10	US-09-954-987B-93	Sequence 93, Appl
30	20	100.0	20	11	US-09-874-991C-35	Sequence 35, Appl
31	20	100.0	20	11	US-09-874-991C-101	Sequence 101, Appl
32	20	100.0	20	11	US-09-874-991C-124	Sequence 124, App
33	20	100.0	20	11	US-09-874-991C-152	Sequence 152, App
34	20	100.0	20	11	US-09-874-991C-173	Sequence 173, App
35	20	100.0	20	11	US-09-874-991C-198	Sequence 198, App
36	20	100.0	20	11	US-09-874-991C-414	Sequence 414, App
37	20	100.0	20	11	US-09-874-991C-433	Sequence 433, App
38	20	100.0	20	11	US-09-776-479-389	Sequence 389, App
39	20	100.0	20	11	US-09-776-479-395	Sequence 395, App
40	20	100.0	20	11	US-09-776-479-463	Sequence 463, App
41	20	100.0	20	11	US-09-776-479-466	Sequence 466, App
42	20	100.0	20	11	US-09-776-479-573	Sequence 573, App
43	20	100.0	20	13	US-10-023-909A-17	Sequence 17, Appl
44	20	100.0	20	13	US-10-023-909A-18	Sequence 18, Appl
45	20	100.0	20	13	US-10-023-909A-35	Sequence 35, Appl

ALIGNMENTS

RESULT 1
US-09-466-320-24
; Sequence 24, Application US/09466320
; Patent No. US20020025939A1
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick
; TITLE OF INVENTION: Chorionic Gonadotropin DNA Vaccines and
; FILE OF INVENTION: Methods
; FILE REFERENCE: 0450-0026.30
; CURRENT APPLICATION NUMBER: US/09/466,320
; CURRENT FILING DATE: 1999-12-17
; EARLIER APPLICATION NUMBER: US 60/112,910
; EARLIER FILING DATE: 1998-12-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: vector sequence
US-09-466-320-24

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGCTGGTCCCTGATGCT 20

Db 1 TCCATGCTGGTCCCTGATGCT 20

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RESULT 2
US-09-824-468-22
; Sequence 22, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-824-468-22

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 3
US-09-824-468-23
; Sequence 23, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-09-824-468-23

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 4
US-09-824-468-42
; Sequence 42, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-42

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 5
US-09-800-266A-17
; Sequence 17, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-17

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 6
US-09-800-266A-18
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Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 4
US-09-824-468-42
; Sequence 42, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-42

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 5
US-09-800-266A-17
; Sequence 17, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-17

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 6
US-09-800-266A-18
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; Sequence 18, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-18

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGGTCTCTGATGCT 20
      |||
Db      1  TCCATGTCGGTCTCTGATGCT 20

RESULT 7
US-09-800-266A-35
; Sequence 35, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; Cancer Medicament Combination Therapy for the Treatment of
; TITLE OF INVENTION: Cancer
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-35

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGGTCTCTGATGCT 20
      |||
Db      1  TCCATGTCGGTCTCTGATGCT 20

RESULT 8
US-09-895-007A-17
; Sequence 17, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-17

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGGTCTCTGATGCT 20
      |||
Db      1  TCCATGTCGGTCTCTGATGCT 20

RESULT 9
US-09-895-007A-18
; Sequence 18, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-18

Query Match      100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TCCATGTCGGTCTCTGATGCT 20
      |||
Db      1  TCCATGTCGGTCTCTGATGCT 20

RESULT 10
US-09-895-007A-35
; Sequence 35, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
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; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-35
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Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCCTGATGCT 20
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RESULT 11
US-09-920-313-17
; Sequence 17, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-17
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```
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20
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```
RESULT 12
US-09-920-313-18
; Sequence 18, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-18
```

```
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20
```

```
RESULT 13
US-09-920-313-35
; Sequence 35, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-35
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```
Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20
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RESULT 14
US-09-415-142-21
; Sequence 21, Application US/09415142
; Publication No. US20030026782A1
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/09/415,142
; CURRENT FILING DATE: 1999-10-09
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-415-142-21
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Query Match 100.0%; Score 20; DB 10; Length 20;
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Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 1 TCCATGTCGGTCCTGATGCT 20

RESULT 15

US-09-888-326-63/c
; Sequence 63, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-63

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCTGATGCT 20
|||||
Db 20 TCCATGTCGGTCCTGATGCT 1

Search completed: July 28, 2005, 03:59:55
Job time : 430.125 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 27, 2005, 16:10:37 ; Search time 76.875 Seconds
(without alignments)
425.698 Million cell updates/sec

Title: US-09-818-918-37

Perfect score: 20

Sequence: 1 tccatgtcggtcctgatgct 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:
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2: /cgn2_6/ptodata/1/ina/5B COMB.seq:
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:
5: /cgn2_6/ptodata/1/ina/PTUS COMB.seq:
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	1	US-08-436-714-7
2	20	100.0	20	1	US-08-442-705-7
3	20	100.0	20	1	US-08-332-829-7
4	20	100.0	20	3	US-08-386-063-21
5	20	100.0	20	3	US-08-386-063-21
6	20	100.0	20	3	US-08-386-063-21
7	20	100.0	20	3	US-08-738-652-31
8	20	100.0	20	3	US-08-738-652-33
9	20	100.0	20	3	US-08-738-652-34
10	20	100.0	20	3	US-08-738-652-37
11	20	100.0	20	3	US-08-286-098-22
12	20	100.0	20	3	US-08-286-098-23
13	20	100.0	20	3	US-08-286-098-42
14	20	100.0	20	3	US-08-960-774-28
15	20	100.0	20	3	US-08-325-193A-17
16	20	100.0	20	3	US-08-325-193A-18
17	20	100.0	20	3	US-08-325-193A-35
18	20	100.0	20	3	US-08-191-170-20
19	20	100.0	20	3	US-08-191-170-22
20	20	100.0	20	3	US-08-191-170-23
21	20	100.0	20	4	US-08-337-619-28
22	20	100.0	25	4	US-08-396-196G-52295
23	20	100.0	25	4	US-08-396-196G-52296
24	20	100.0	1237	3	US-08-798-000-2
25	20	100.0	2002	3	US-08-315-127-7
26	20	100.0	3925	3	US-08-011-745-9
27	20	100.0	8202	1	US-08-258-420-13
28	19	95.0	19	3	US-08-286-098-20

28	19	95.0	20	3	US-08-386-063-23	Sequence 23, Appl
29	19	95.0	20	3	US-08-386-063-23	Sequence 24, Appl
30	19	95.0	20	3	US-08-386-063-23	Sequence 23, Appl
31	19	95.0	20	3	US-08-386-063-24	Sequence 24, Appl
32	19	95.0	20	3	US-08-960-774-30	Sequence 30, Appl
33	19	95.0	20	3	US-08-960-774-31	Sequence 31, Appl
34	19	95.0	20	4	US-08-960-774-31	Sequence 30, Appl
35	19	95.0	20	4	US-08-960-774-31	Sequence 30, Appl
36	18.4	92.0	20	3	US-08-738-652-38	Sequence 38, Appl
37	18.4	92.0	20	3	US-08-738-652-39	Sequence 39, Appl
38	18.4	92.0	20	3	US-08-738-652-40	Sequence 40, Appl
39	18.4	92.0	20	3	US-08-738-652-41	Sequence 41, Appl
40	18.4	92.0	20	3	US-08-738-652-42	Sequence 42, Appl
41	18.4	92.0	20	3	US-08-738-652-43	Sequence 43, Appl
42	18.4	92.0	20	3	US-08-738-652-53	Sequence 53, Appl
43	18.4	92.0	20	3	US-09-030-701-4	Sequence 4, Appl
44	18.4	92.0	20	3	US-09-030-701-5	Sequence 5, Appl
45	18.4	92.0	20	3	US-09-286-098-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1
US-08-436-714-7
; Sequence 7, Application US/08436714
; Patent No. 5602244
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proce
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Yahwak & Associates
; STREET: 25 Skytop Drive
; CITY: Trumbull
; STATE: Connecticut
; COUNTRY: USA
; ZIP: 06611
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,714
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;
Qy 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

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RESULT 2
US-08-442-705-7
; Sequence 7, Application US/08442705
; Patent No. 5684148
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 8
; SEQUENCE CHARACTERISTICS:
; LENGTH: 25 Skytop Drive
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-442-705-7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-442-705-7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,705
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: George M. Yahwak
; REGISTRATION NUMBER: 26,824
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-442-705-7
; Query Match 100.0%; Score 20; DB 1; Length 20;
; Best Local Similarity 100.0%; Pred. No. 0.98;
; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20
RESULT 3
US-08-332-829-7
; Sequence 7, Application US/08332829
; Patent No. 5750666
; GENERAL INFORMATION:
; APPLICANT: Marvin H. Caruthers et al
; TITLE OF INVENTION: Nucleoside and Polynucleotide
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 8
; SEQUENCE CHARACTERISTICS:
; LENGTH: 25 Skytop Drive
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-332-829-7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/332,829
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-7400
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-332-829-7
; Query Match 100.0%; Score 20; DB 3; Length 20;
; Best Local Similarity 100.0%; Pred. No. 0.98;
; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20
RESULT 4
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
; TELEPHONE: (203)268-1951
; TELEFAX: (203)268-1951
; INFORMATION FOR SEQ ID NO: 27
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 STATE STREET, SUITE 510
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-21
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-7400
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-21
; Query Match 100.0%; Score 20; DB 3; Length 20;
; Best Local Similarity 100.0%; Pred. No. 0.98;
; Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TCCATGTCGGTCCTGATGCT 20
Db 1 TCCATGTCGGTCCTGATGCT 20
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Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 5

US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA

US-08-386-063-21

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCTCGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 6

US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCTCGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 7

US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: mSc
US-08-738-652-33

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCTCGATGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 TCCATGTCGGTCTCGATGCT 20

RESULT 8

US-08-738-652-34
; Sequence 34, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
US-08-738-652-34

Db 1 TCCATGTCGGTCTCGATGCT 20

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; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-08-738-652-34

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 9
US-08-738-652-37
; Sequence 37, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-37

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 10
US-09-286-098-22
; Sequence 22, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c

US-09-286-098-22
; Sequence 22, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-09-286-098-22

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 11
US-09-286-098-23
; Sequence 23, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
US-09-286-098-23

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGGTCCCTGATGCT 20
    |||||
Db 1 TCCATGTCGGTCCCTGATGCT 20

RESULT 12
US-09-286-098-42
; Sequence 42, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-286-098-42
```

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
DB 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 13
US-08-960-774-28
; Sequence 28, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099

; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-960-774-28
Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
DB 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 14
US-09-325-193A-17
; Sequence 17, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant

; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-17

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
DB 1 TCCATGTCGGTCTCTGATGCT 20

RESULT 15
US-09-325-193A-18
; Sequence 18, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURES:
; NAME/KEY: modified base
; LOCATION: (12)...(12)
; OTHER INFORMATION: m5c
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-18

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.98;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGGTCTCTGATGCT 20
| | | | | | | | | | | | | | | | | | | | | |
DB 1 TCCATGTCGGTCTCTGATGCT 20

Search completed: July 27, 2005, 18:00:02
Job time : 77 secs

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